



Volume 27

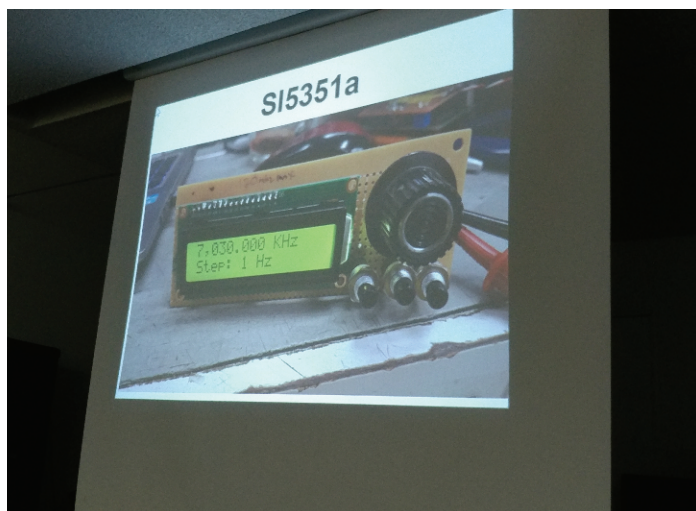
An ARCEC Monthly Publication

April 2018

*Counterpoise Editor - Sue Robins AF6LJ*

## Arduino

By Sue Robins AF6LJ



Pat WA6MHZ put on a good presentation of his experience with the very popular Arduino microcontroller. The above item is a signal generator driven by an Arduino Uno. Pat had other projects including an APRS I-Gate. Non-ham related projects included a distance measuring device, and a pan and tilt head controller.

The Arduino microcontrollers are members of the AVR microcontroller family. These devices can be found in all manner of commercial, industrial, and consumer electronics devices. Odds are you have at least one or more devices that use these controllers.

For more information;

<https://store.arduino.cc/usa/>

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## Shed Work Party

Rain caused us to cancel our March 17<sup>th</sup> work party date, the next weekend was the best possible choice. On March 28<sup>th</sup> we got together and took care of a few items that needed our attention. For one the utility trailer lights needed to be rewired. Age had taken its toll, and they were no longer functional, a broken wire was the fault. It was decided we would rewire the trailer. Myself, Dave KD6DW, Mike KG6TDP, and Jason N0XN all chipped in on the project. We were able to find a home for our broken generator that was taking up space in the shed, Mike KG6TDP took on it as a project. With our goals accomplished, we were all finished and on our way to the next task in the day's activity. As for me; I was home before 1:00 PM.



## More Work Party Goodness



## Field Day

Just a reminder ARRL Field Day 2018 is June 23<sup>rd</sup> and 24<sup>th</sup>, Stay tuned for details.



## Fry's Operating Day

Saturday May 19<sup>th</sup> 2018

9825 Stonecrest Blvd., San Diego CA.

(off Aero Dr.)

Setup at 7:00 AM public operations begin by 9:00 AM. The event will last until 4:00 PM.

Come and joins us for a day of hamming in the parking lot. Show off your portable station, mobile rig or club EMCOM trailer, and show the public what Amateur Radio is all about.

For more information

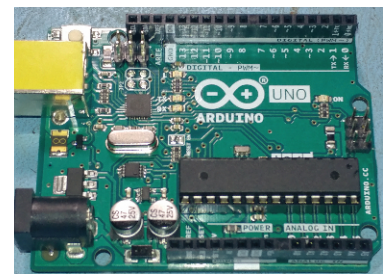
see: <http://www.sdsixshooters.org/>

## Next Month's Meeting

### *More Arduino*

Jon (KK6VLO) and Axel (KI6RRN) will share at the club meeting information related to Arduino projects and things they have been working on. Axel will be sharing some of his own projects including the a band decoder using an Arduino board that he and Ron collaborated on, as well as other projects Axel has done. Some of Jon's projects are ham related, but also cover BBQ smokers, and other automation tasks easily handled by the ATmega chips.

*All members and visitors are welcome.*



## ARCEC Repeater Frequencies

2 Meter Repeater	220 MHZ Repeater	440 MHZ Repeater
TX 146.475	TX 222.480	TX 440.900
RX 147.420	RX 224.080	RX 445.900
Offset .945	Offset 1.6	Offset 5.00
PL 107.2	PL 107.2	PL 107.2



## Donut Net

Monday nights after dinner the Donut Net can be found on the ARCEC VHF repeater. Axel KI6RRN hosts a fun filled net with trivia questions and other activities. The net is a great place to spend that after dinner and before prime TV time. Come and join Axel for fun and fellowship with your fellow hams every Monday at 7:00 PM.

## Support Our Local Businesses



	<p><b>New Battery Supply &amp; Battery Recycling for SD</b></p> <p>New Marine Battery-Heavy Equipment Battery-Tuck/Auto</p> <p><b>619Battery.com</b></p> <p>Shop 619-448-5323 Mobile 619-315-5604 Call/Text</p> <p>1985 Friendship Dr B El Cajon 92020</p> <p><b>Jeff Schwen</b></p>
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## Club Shirts & Jackets

We have green, pocketed 2013 Field Day club shirts available in sizes S (2), M (1), and L (8) for \$10 each. Our standard Club Shirts have no pocket and are in sizes M (10), L (4), 2XL (7), 3XL (4), 4XL (5) for \$10 each. Sizes are limited to stock on hand.

Lined Windbreaker Jackets are also available in sizes L (1) and XL (7) for \$24 each. These have side pockets with snap closure.

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## Membership Badges & Pins

All members of the Amateur Radio Club of El Cajon who might wish to obtain a membership badge can contact Dell Awards and place an order with them. They are our current preferred source for these badges, and have our logo and design on file and ready to create a custom badge for members. Current price is \$7.50 per badge and they have indicated that there is normally a 3 business day turnaround time. These are quality badges made by a long established company, so place yours on order soon. They can be reached at the below address and phone number, and be sure to mention you saw this blurb in the Counterpoise newsletter too.

**Dell Awards**  
**7949 Broadway**  
**Lemon Grove, CA 91945**  
**(619) 469-2100**  
**Hours: Mon-Fri 9:30am-5:30pm**  
**Sat 10am-1pm**  
**Sun - Closed**

## Club Pins Now Available:

They have arrived! A limited number of club pins are now here and can be obtained from our Treasurer at most club functions. These are 1" diameter pins with a rubber clutch pin on rear. You can now show the world your support of the Amateur Radio Club of El Cajon, and for the small cost of \$3.00 each too. Get them while they are available.





The **AMATEUR RADIO CLUB OF EL CAJON** Inc.  
**WA6BGS**

Post Office Box Fifty, El Cajon California 92022

Founded 1960 ~ Incorporated 1976

Please fill out this form and then see options at bottom for submitting to the club

Date of application: \_\_\_ / \_\_\_ / \_\_\_

Amount Paid: \$ \_\_\_\_\_ Cash      Check      Check # \_\_\_\_\_

Membership Type:      Individual (\$20/year)      Family\* (\$35/year)

Membership Status:      New      Renewal      Returning Member

Call Sign      First Name \_\_\_\_\_ Last Name \_\_\_\_\_

If a previous member, what was your WAMO number?

ARRL Member:      Yes      No

License Class:      Technician      General      Extra      Other

Email Address (required) \_\_\_\_\_

Phone Number (optional) \_\_\_\_\_

*\*Use another sheet of paper to add Family members and please include the following information:*

First Name, Last Name, Call Sign (if any), License Class, Wamo Number (if any), & Email Address.

**Submitting this form:**

To submit this form, you can mail it to:

**Amateur Radio Club of El Cajon  
P.O. Box 50  
El Cajon, CA 92022**

-OR-

Bring it to the next club meeting on the second Thursday of each month. You can find the date and location by getting online at [www.wa6bgs.us](http://www.wa6bgs.us) which is the club website. Check it out for the most current information regarding the club.

**Cash Payments - Get a receipt from the Club Treasurer. Please make all checks payable to AMATEUR RADIO CLUB of EL CAJON, Incorporated. Receipts for payments by check will be sent by email or regular mail by the Club Treasurer.**

**Members with an FCC Call Sign are full members with voting privileges. Members without an FCC Call Sign are Associate members without voting privileges.**

**YOUR DUES ARE TAX DEDUCTIBLE: Amateur Radio Club of El Cajon, Inc. Is a 501 C 7 Corporation. Donations are NOT tax deductible.**

**Email address and phone number are to allow club officers to contact members regarding club business and information of interest.**